

SF 1372179 v1

+

SEP 20 2002

PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 7

Complete if Known

Application Number	09/927,424
Filing Date	August 9, 2001
First Named Inventor	Shipwash, Edward
Art Unit	1645 1637
Examiner Name	
Attorney Docket Number	021059-000110US

SEP 23 2002

RECEIVED

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T ²
SAT	BC	Schimmel, P., "Aminoacyl tRNA Synthetases: General Scheme of Structure-Function Relationships in the Polypeptides and Recognition of Transfer RNAs", <i>Annu. Rev. Biochem.</i> , 56:125-158 (1987)					
	BD	Freist, W., "Mechanisms of Aminoacyl-tRNA Synthetases: A Critical Consideration of Recent Results", <i>Biochemistry</i> , 28:6787-6795 (1989)					
	BE	Schimmel, P., "Aminoacylation of RNA oligonucleotides: minimalist structures and origin of specificity", <i>FASEB J.</i> , 7:282-9 (1993)					
	BF	Cusack, S., "Aminoacyl-tRNA synthetases", <i>Curr. Opin. Struc. Biol.</i> , 7:881-9 (1997)					
	BG	Negrutskii et al., "Functional Interaction of Mammalian Valyl-tRNA Synthetase with Elongation Factor EF-1 α in the Complex with EF-1H", <i>JBC</i> , 274:4545-4550 (1999)					
	BH	Lloyd et al., "A broadly applicable continuous spectrophotometric assay for measuring aminoacyl-tRNA synthetase activity", <i>Nucl. Acids Res.</i> , 23:2886-2892 (1995)					
	BI	Reed et al., "Mechanisms of the Transfer of Aminoacyl-tRNA from Aminoacyl-tRNA Synthetase to the Elongation Factor 1 α ", <i>JBC</i> , 269:32932-36 (1994)					
	BJ	Lechler et al., "Overproduction of Phenylalanyl-tRNA Synthetase from <i>Thermus thermophilus</i> HB8 in <i>Escherichia coli</i> ", <i>Protein Expr. Purif.</i> , 8:347-57 (1996)					
	BK	Bausch et al., "Analysis and overexpression in <i>Escherichia coli</i> of a staphylococcal gene encoding seryl-tRNA synthetase", <i>Biochim. Biophys. Acta</i> , 1397:169-74 (1998)					
	BL	Martinis et al., "Aminoacyl-tRNA synthetases: A new image for a classical family", <i>Biochimie</i> , 81:683-700					
	BM	Schimmel et al., "Aminoacyl tRNA synthetases as targets for new anti-infectives", <i>FASEB J.</i> , 12:1599-609 (1998)					
	BN	DeGuzman et al., "Protein-RNA Recognition", <i>Biopolymers (Nucleic Acid Sciences)</i> , 48:181-95 (1998)					
	BO	Freist et al., "Glutamyl-tRNA Synthetase", <i>Biol. Chem.</i> , 378:1313-29 (1997)					
	BP	Freist et al., "Glycyl-tRNA Synthetase", <i>Biol. Chem.</i> , 377:343-56 (1996)					

Examiner
SignatureDate
Considered

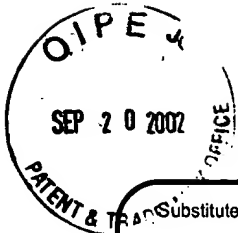
2/24/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SF 1372179 v1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 3 of 7

Complete if Known

Application Number	09/927,424
Filing Date	August 9, 2001
First Named Inventor	Shipwash, Edward
Art Unit	4645-1637
Examiner Name	
Attorney Docket Number	021059-000110US

SEP 23 2002
RECEIVED
FBI CENTER 1600/2900**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
SP	BQ		Cusak, S., "Eleven down and nine to go", <i>Nat. Struct. Biol.</i> , 2:824-31 (1995)				
	BR		Fukai, S., "Structural Basis for Double-Sieve Discrimination of L-Valine from L-Isoleucine and L-Threonine by the Complex of tRNA ^{Val} and Valyl-tRNA Synthetase", <i>Cell</i> , 103:793-803 (2000)				
	BS		Ibba et al., "Aminoacyl-tRNA Synthesis", <i>Ann Rev. Biochem. Sci.</i> , 69:617-50 (2000)				
	BT		Ibba et al., "The Adaptor hypothesis revisited", <i>Trends Biochem.</i> , 25:311-6				
	BU		Freist et al., "Histidyl-tRNA Synthetase", <i>Biol. Chem.</i> , 380:623-46 (1999)				
	BV		Cavarelli et al., "Recognition of tRNAs by aminoacyl-tRNA synthetases", <i>FASEB J.</i> , 7:79-86 (1993)				
	BW		Webb, M.R., "A continuous spectrophotometric assay for inorganic phosphate and for measuring phosphate release kinetics in biological systems", <i>Proc. Nat'l Acad. Sci. USA</i> , 89:4884-4887 (1992)				
	BX		Pellequer et al., "Measurement of kinetic binding constants of viral antibodies using a new biosensor technology", <i>J. Immunol. Meth.</i> , 166:133-143 (1993)				
	BY		Blank et al., "Overexpression and Purification of <i>Thermus thermophilus</i> Elongation Factors G, Tu, and Ts from <i>Escherichia coli</i> ", <i>Protein Expr. Purif.</i> , 6:637-45 (1995)				
	BZ		Moore et al., "Molecular Mimicry in Protein Synthesis?", <i>Science</i> , 270:1453-4 (1995)				
	CA		Bilgin et al., "Solution Structure of the Ternary Complex between Aminoacyl-tRNA, Elongation Factor Tu, and Guanosine Triphosphate", <i>Biochemistry</i> , 37:8163-72 (1998)				
	CB		Liljas, A.M., "Ribosomal proteins and elongation factors", <i>Curr. Opin. Struct. Biol.</i> , 5:721-7 (1995)				
	CC		Negrutskii et al., "Eukaryotic Translation Elongation Factor 1 α : Structure, Expression, Functions, and Possible Role in Aminoacyl-tRNA Channeling", <i>Prog. Nucleic Acid Res. Mol. Biol.</i> , 60:47-78 (1998)				
	CD		Krab et al., "EF-Tu, a GTPase odyssey", <i>Biochim Biophys Acta</i> , 1443:1-22 (1998)				
SH	CE		Clark, J., "The ternary complex of EF-Tu and its role in protein biosynthesis", <i>Curr. Opin. Struct. Biol.</i> , 7:110-6 (1997)				

Examiner
SignatureDate
Considered

2/24/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SF 1372179 v1

SEP 20 2002

PATENT & TRADEMARK OFFICE

PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0751-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4

of

7

Complete if Known

Application Number	09/927,424
Filing Date	August 9, 2001
First Named Inventor	Shipwash, Edward
Art Unit	4645 1637
Examiner Name	

Attorney Docket Number	021059-000110US
------------------------	-----------------

SEP 20 2002
RECEIVED
PATENT & TRADEMARK OFFICE
1600/2900**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
SH	CF		Schmitt et al., "Molecular recognition governing the initiation of translation in <i>Escherichia coli</i> . A review", <i>Biochimie</i> , 78 :543-54 (1996)				1
	CG		Cai et al., "Interaction of Mitochondrial Elongation Factor Tu with Aminoacyl-tRNA and Elongation Factor Ts", <i>J. Biol. Chem.</i> , 275 :20308-14 (2000)				1
	CH		Nissen et al., "The crystal structure of Cys-tRNA ^{Cys} -EF-Tu-GDPNP reveals general and specific features in the ternary complex and in tRNA", <i>Structure Fold Des.</i> , 7 :143-56 (1999)				1
	CI		Liu et al., "F-actin Sequesters Elongation Factor 1 α from Interaction with Aminoacyl-tRNA in a pH-dependent Reaction", <i>J. Cell. Biol.</i> , 135 :953-63 (1996)				1
	CJ		Reshetnikova et al., "Crystals of Intact Elongation Factor Tu from <i>Thermus thermophilus</i> Diffracting to High Resolution", <i>J. Mol. Biol.</i> , 221 :375-7 (1991)				1
	CK		Wagner et al., "Interaction of Guanosine Nucleotides and Their Analogs with Elongation Factor Tu from <i>Thermus thermophilus</i> ", <i>Biochemistry</i> , 34 :12535-12542 (1995)				1
	CL		Nissen et al., "Crystal Structure of the Ternary Complex of Phe-tRNA ^{Phe} , EF-Tu, and a GTP Analog", <i>Science</i> , 270 :1464-1472 (1995)				1
	CM		Janiak et al., "Fluorescence Characterization of the Interaction of Various Transfer RNA Species with Elongation Factor Tu-GTP: Evidence for a New Functional Role for Elongation Factor Tu in Protein Biosynthesis", <i>Biochemistry</i> , 29 :4268-4277 (1990)				1
	CN		Zubritsky, E., "Microplate Fluorometers Reach Critical Mass", <i>Anal. Chem.</i> , 71 :39A-43A (1999)				1
	CO		Robeiro et al., "Purification of Aminoacyl-tRNA by Affinity Chromatography on Immobilized <i>Thermus thermophilus</i> EF-Tu-GTP", <i>Anal. Biochem.</i> , 228 :330-335 (1995)				1
	CP		Nie et al., "Optical Detection of Single Molecules", <i>Ann. Rev. Biophys. Biomol. Struct.</i> , 26 :567-596 (1997)				1
	CQ		Wu et al., "A Continuous Spectrophotometric Assay for the Aminoacylation of Transfer RNA by Alanyl-Transfer RNA Synthetase", <i>Anal. Biochem.</i> , 211 :320-323 (1993)				1
	CR		Oliver, I.T., "A Spectrophotometric Method for the Determination of Creatine Phosphokinase and Myokinase", <i>Biochem. J.</i> , 61 :116-122 (1955)				1
	CS		Light, A., "Leucine Aminopeptidase (LAP)", <i>Meth. Enzymol.</i> , 11 :426-436 (1967)				1
SH	CT		Breddam et al., "Determination of C-Terminal Sequences by Digestion With Serine Carboxypeptidases: The Influence of Enzyme Specificity", <i>Carlsberg Res. Comm.</i> , 52 :55-63 (1987)				1

Examiner
SignatureDate
Considered

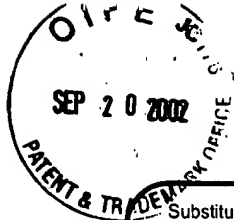
2/24/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SF 1372179 v1



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 7

Complete If Known

Application Number	09/927,424
Filing Date	August 9, 2001
First Named Inventor	Shipwash, Edward
Art Unit	1645 1637
Examiner Name	
Attorney Docket Number	021059-000110US

SEP 20 2002
RECEIVED
PATENT & TRADEMARK OFFICE
1600/2900

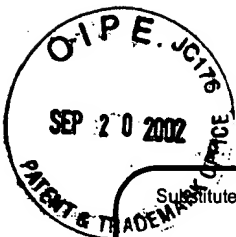
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
SA	CU		Royer, G., "Immobilized Derivatives of Leucine Aminopeptidase and Aminopeptidase M", <i>J. Biol. Chem.</i> , 248 :1807-1812 (1973)			1
	CV		Martin et al., "Use of Carboxypeptidase Y for Carboxy - Terminal Sequence Determination in Proteins", <i>Carlsberg Res. Comm.</i> , 42 :99-102 (1977)			1
	CW		Klarskov et al., "C-Terminal Sequence Determination of Peptides Degraded with Carboxypeptidases of Different Specificities and Analyzed by 252-Cf Plasma Desorption Mass Spectrometry", <i>Anal. Biochem.</i> , 180 :28-37 (1989)			1
	CX		Thiede et al., "MALDI-MS for C-terminal sequence determination of peptides and proteins degraded by carboxypeptidase Y and P", <i>FEBS Letts.</i> , 357 :65-9 (1995)			1
	CY		Bonetto et al., "C-Terminal Sequence Analysis of Peptides and Proteins Using Carboxypeptidases and Mass Spectrometry after Derivatization of Lys and Cys Residues", <i>Anal. Chem.</i> , 69 :1315-1319 (1997)			1
	CZ		Chinali, G., "Isolation of tRNA isoacceptors by affinity chromatography with immobilized elongation factor Tu from <i>Escherichia coli</i> ", <i>J. Biochem. Biophys. Meth.</i> , 34 :1-10 (1997)			1
	DA		Giovane et al., "Interaction studies between elongation factor Tu and anthraniloyl-fluorescent analogues of guanyl nucleotides", <i>Eur. J. Biochem.</i> , 227 :428-432 (1995)			1
	DB		Eccleston et al., "Interaction of a Fluorescent Analogue of GDP with Elongation Factor Tu: Steady-State and Time-Resolved Fluorescence Studies", <i>Biochemistry</i> , 26 :3902-3907 (1987)			1
	DC		Iwane et al., "Single molecular assay of individual ATP turnover by a myosin-GFP fusion protein expressed in vitro", <i>FEBS Letts.</i> , 407 :235 (1997)			1
	DD		Patterson, D.M., "C-Terminal Ladder Sequencing via Matrix-Assisted Laser Desorption Mass Spectrometry Coupled with Carboxypeptidase Y Time-Dependent and Concentration-Dependent Digestions", <i>Anal. Chem.</i> , 67 :3971-3978 (1995)			1
	DE		Johnson et al., "Distance Moved by Transfer RNA During Translocation from the A Site to the P Site on the Ribosome", <i>J. Mol. Biol.</i> , 156 :113-140 (1982)			1
	DF		Watson et al., "Macromolecular Arrangement in the Aminoacyl-tRNA-Elongation Factor Tu-GTP Ternary Complex. A Fluorescence Energy Transfer Study", <i>Biochemistry</i> , 34 :7904-7912 (1995)			1
	DG		Dreher et al., "Quantitative Assessment of EF1α-GTP Binding to Aminoacyl-tRNAs, Aminoacyl-viral RNA, and tRNA Shows Close Correspondence to the RNA Binding Properties of EF-Tu", <i>JBC</i> , 274 :666-72 (1999)			1
	DH		Nyrén et al., "Inorganic Pyrophosphatase-Based Detection Systems", <i>Analytical Biochemistry</i> , 220 :46-52 (1994)			1
SA	DI		Ekins, "Ligand assays: from electrophoresis to miniaturized microarrays", <i>Clinical Chemistry</i> , 44 :2015-2030 (1998)			1

Examiner Signature		Date Considered	11/16/03
--------------------	--	-----------------	----------

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1372179 v1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 6 of 7

Complete if Known

Application Number	09/927,424
Filing Date	August 9, 2001
First Named Inventor	Shipwash, Edward
Art Unit	1645/637
Examiner Name	
Attorney Docket Number	021059-000110US

TECH CENTER 1600/2900

SEP 20 2002

RECEIVED

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
SA	DJ		Huang et al., "Determination of L-phenylalanine based on an NADH-detecting biosensor," <i>Anal. Chem.</i> , 70:991-7 (1998)				
	DK		Lee et al., "Application of a flow injection fibre optic biosensor for the analysis of different amino acids", <i>Biosens Bioelectron</i> , 9:29-32 (1994)				
	DL		Campanella et al., "Analysis of L-dopa in pharmaceutical preparations and of total phenols content in urine by means of an enzyme-amperometric sensor", <i>J Pharm Biomed Anal</i> , 11:1099-104 (1993)				
	DM		Thoma et al., "Automated phenylthiocarbamyl amino acid analysis of carboxypeptidase/aminopeptidase digests and acid hydrolysates", <i>Journal of Chromatography</i> , 537:153-165 (1991)				
	DN		Watson et al., "Macromolecular Arrangement in the Aminoacyl-tRNA•Elongation Factor Tu•GTP Ternary Complex. A Fluorescence Energy Transfer Study", <i>Biochemistry</i> , 34:7904-7912 (1995)				
	DO		Nyrén et al., "Inorganic Pyrophosphatase-Based Detection Systems", <i>Analytical Biochemistry</i> , 220:39-45 (1994)				
	DP		Nyrén et al., "Enzymatic Method for Continuous Monitoring of Inorganic Pyrophosphate Synthesis", <i>Analytical Biochemistry</i> , 151:504-509 (1985)				
	DQ		Forrest et al., "Aminoalkyl Adenylate and Aminoacyl Sulfamate Intermediate Analogues Differing Greatly in Affinity for their Cognate <i>Staphylococcus aureus</i> Aminoacyl tRNA Synthetases", <i>Bioorganic & Medicinal Chemistry Letters</i> , 10:1871-1874 (2000)				
	DR		Negrutskii et al., "Functional Interaction of Mammalian Valyl-tRNA Synthetase with Elongation Factor EF-1 α in the Complex with EF-1H", <i>The Journal of Biological Chemistry</i> , 274:4545-4550 (1999)				
	DS		Wu et al., "A Continuous Spectrophotometric Assay for the Aminoacylation of Transfer RNA by Alanyl-Transfer RNA Synthetase", <i>Analytical Biochemistry</i> , 211:320-323 (1993)				
	DT		Ribeiro et al., "Purification of Aminoacyl-tRNA by Affinity Chromatography on Immobilized <i>Thermus thermophilus</i> EF-Tu•GTP", <i>Analysis Biochemistry</i> , 228:330-335 (1995)				
	DU		Bilgin et al., "Solution Structure of the Ternary Complex between Aminoacyl-tRNA, Elongation Factor Tu, and Guanosine Triphosphate", <i>Biochemistry</i> , 37:8163-8172 (1998)				
	DV		Ohlson et al., "Use of monoclonal antibodies for weak affinity chromatography", <i>Journal of Chromatography A</i> , 758:199-208 (1997)				
	DW		Dunn et al., "Quantitative Affinity Chromatography. Determination of Binding Constants by Elution with Competitive Inhibitors", <i>Proc. Nat. Acad. Sci. USA</i> , 71:2382-2385 (1974)				
SA	DX		Winzor, "Recent developments in quantitative affinity chromatography", <i>Journal of Chromatography</i> , 597:67-82 (1992)				

Examiner
SignatureDate
Considered

2/24/03

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
SF 1372179 v1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 7 of 7

Complete if Known

Application Number	09/927,424
Filing Date	August 9, 2001
First Named Inventor	Shipwash, Edward
Art Unit	1645 1637
Examiner Name	
Attorney Docket Number	021059-000110US

SEP 20 2002
TECH CENTER 1600/2900

+ RECEIVED

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code* (if known)			
SEA	DY		Rabbany et al., "Assessment of Heterogeneity in Antibody-Antigen Displacement Reactions", <i>Anal. Chem.</i> , 69 :175-182 (1997)			
	DZ		Narang et al., "Multianalyte Detection Using a Capillary-Based Flow Immunosensor", <i>Analytical Biochemistry</i> , 255 :13-19 (1998)			
	EA		Remy et al., "Purification of Yeast Phenylalanyl-tRNA Synthetase by Affinity Chromatography, on a tRNA ^{Phe} -Sepharose Column", <i>FEBS Letters</i> , 27 :134-138 (1972)			
	EB		Lloyd et al., "A broadly applicable continuous spectrophotometric assay for measuring aminoacyl-tRNA synthetase activity", <i>Nucleic Acids Research</i> , 23 :2886-2892 (1995)			
	EC		Reed et al., "Mechanisms of the Transfer of Aminoacyl-tRNA from Aminoacyl-tRNA Synthetase to the Elongation Factor 1 α ", <i>The Journal of Biological Chemistry</i> , 269 :32932-32936 (1994)			
	ED		Louie et al., "Affinity Purification of Aminoacyl-tRNA", <i>Analytical Biochemistry</i> , 141 :402-408 (1984)			
	EE		Chang et al., "Continuous Spectrophotometric Assay for Aminoacyl-tRNA Synthetases", <i>Analytical Biochemistry</i> , 142 :369-372 (1984)			
SEA	EF		Shipwash, Edward, "Microarrays for Amino Acid Analysis and Protein Sequencing", <i>Physics</i> , Abstract physicscs/9908021			

SF 1372179 v1

Examiner Signature		Date Considered	2/24/03
--------------------	--	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

SF 1372179 v1